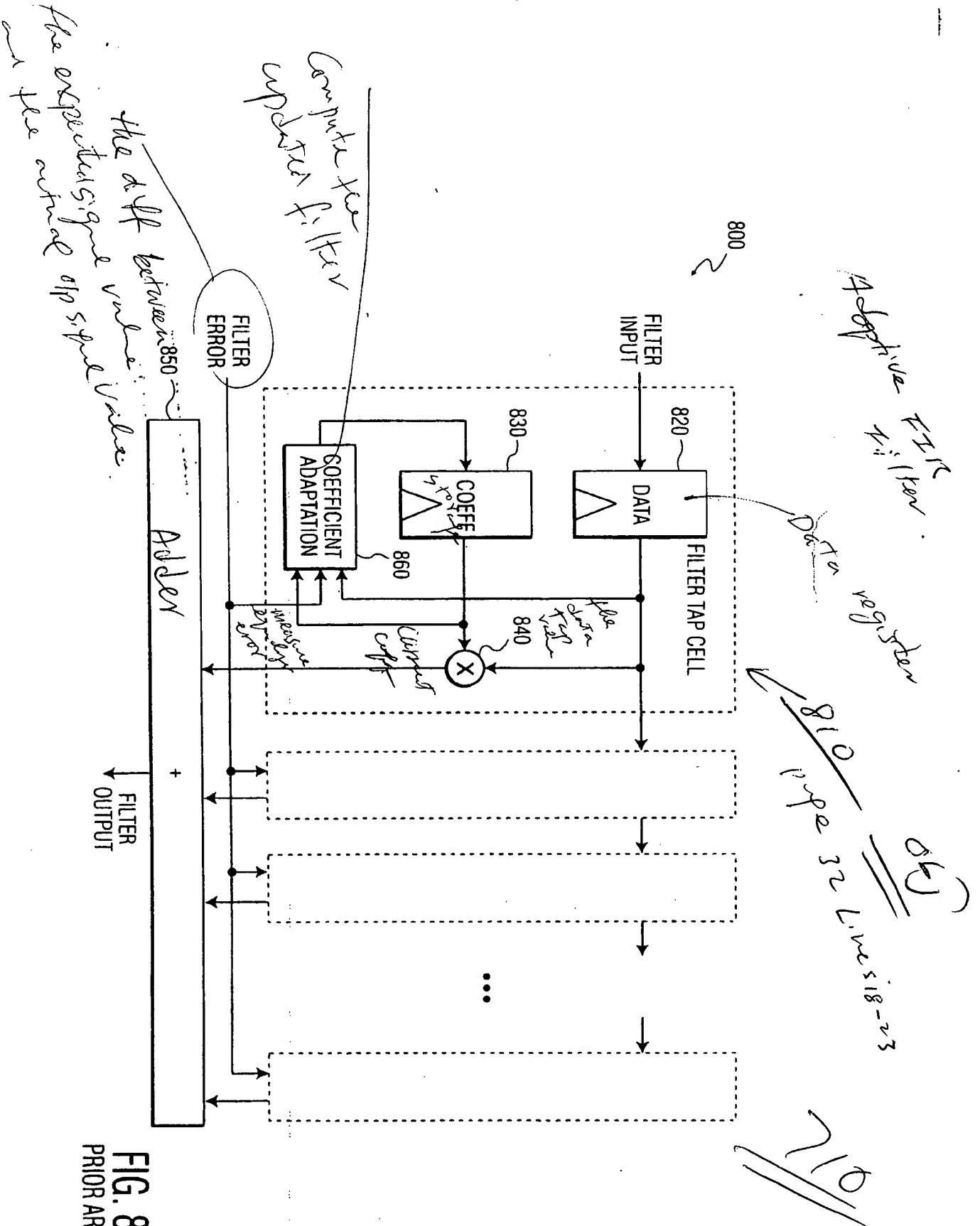


FIG. 13

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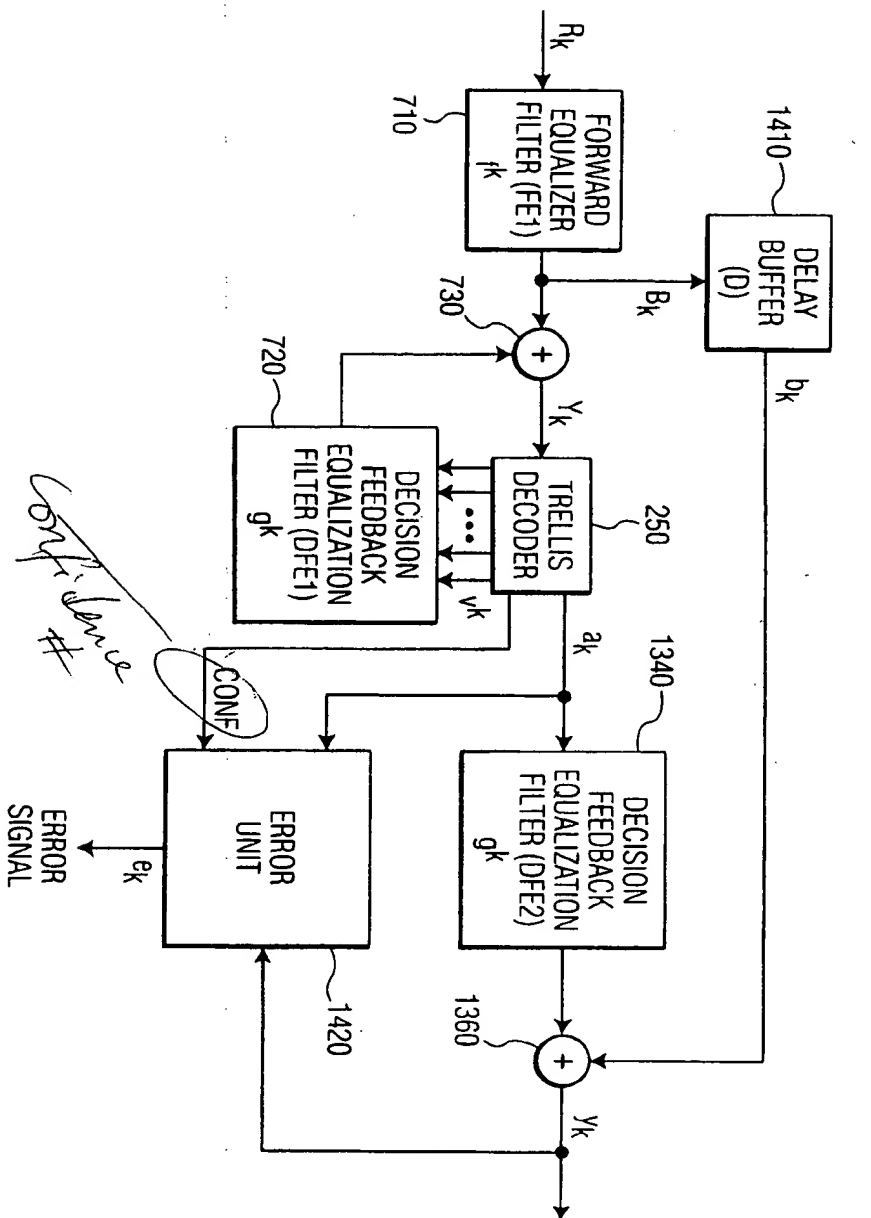
FIG. 8
 PRIOR ART



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confidence #

FIG. 14



*2-1-15
17-20*

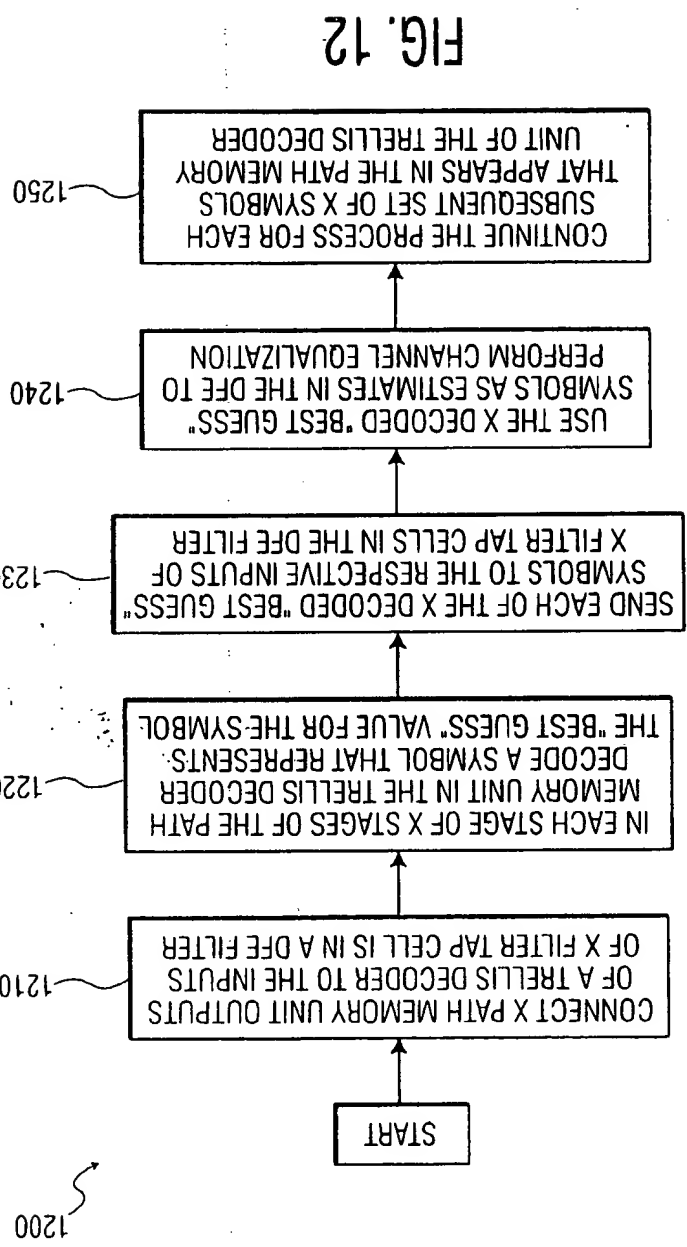


FIG. 12

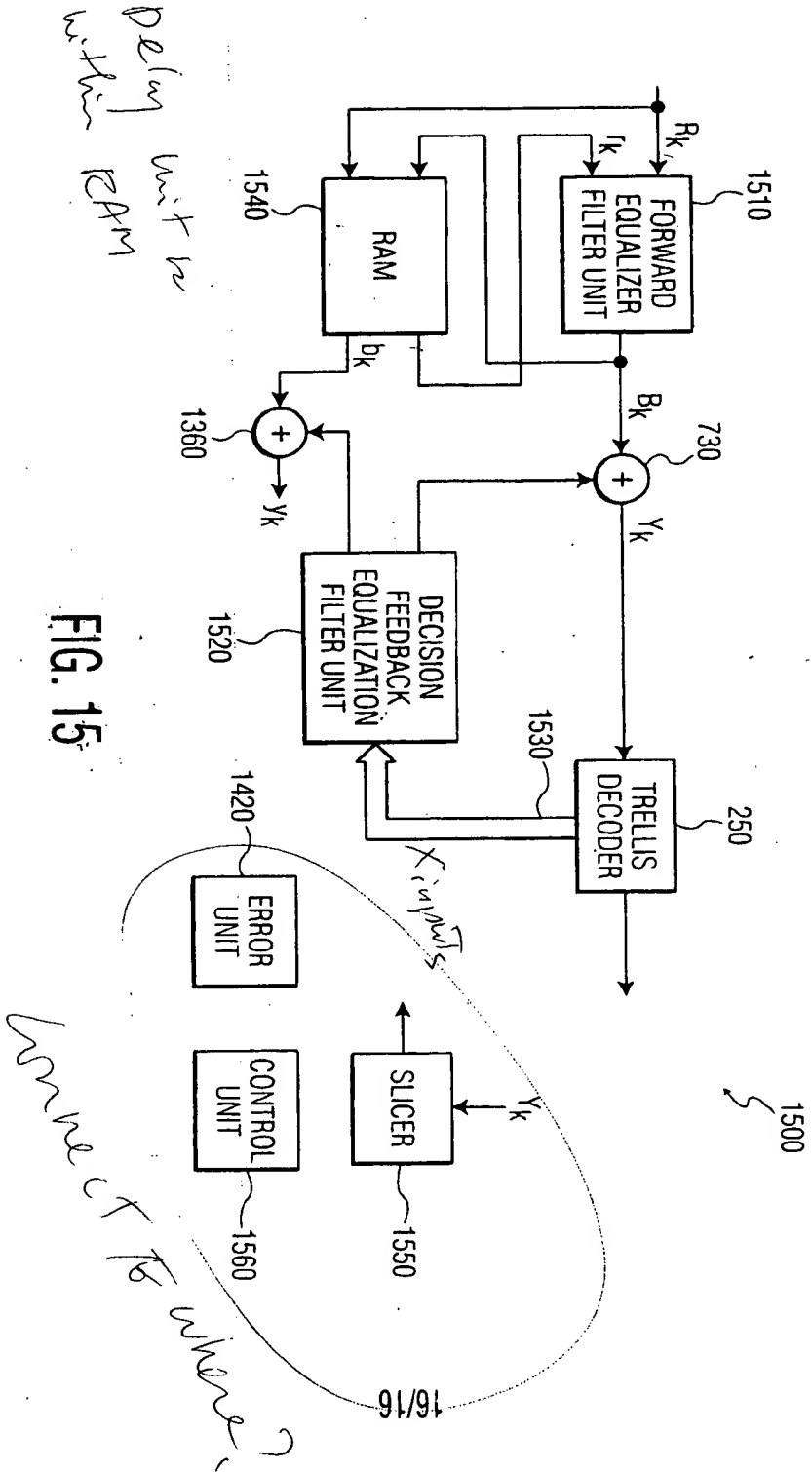
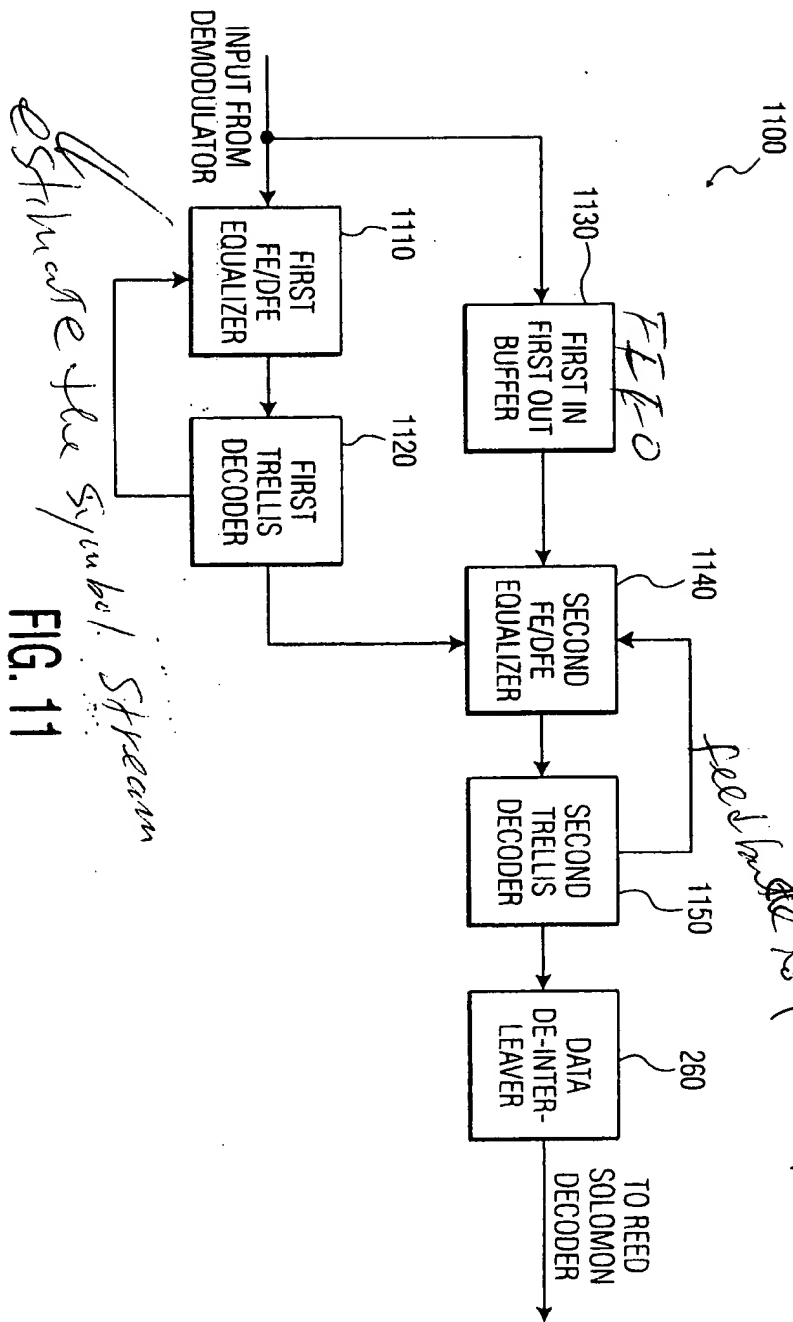


FIG. 15



Estimate the Symbol Stream

Use the feedback to minimize error propagation

FIG. 11

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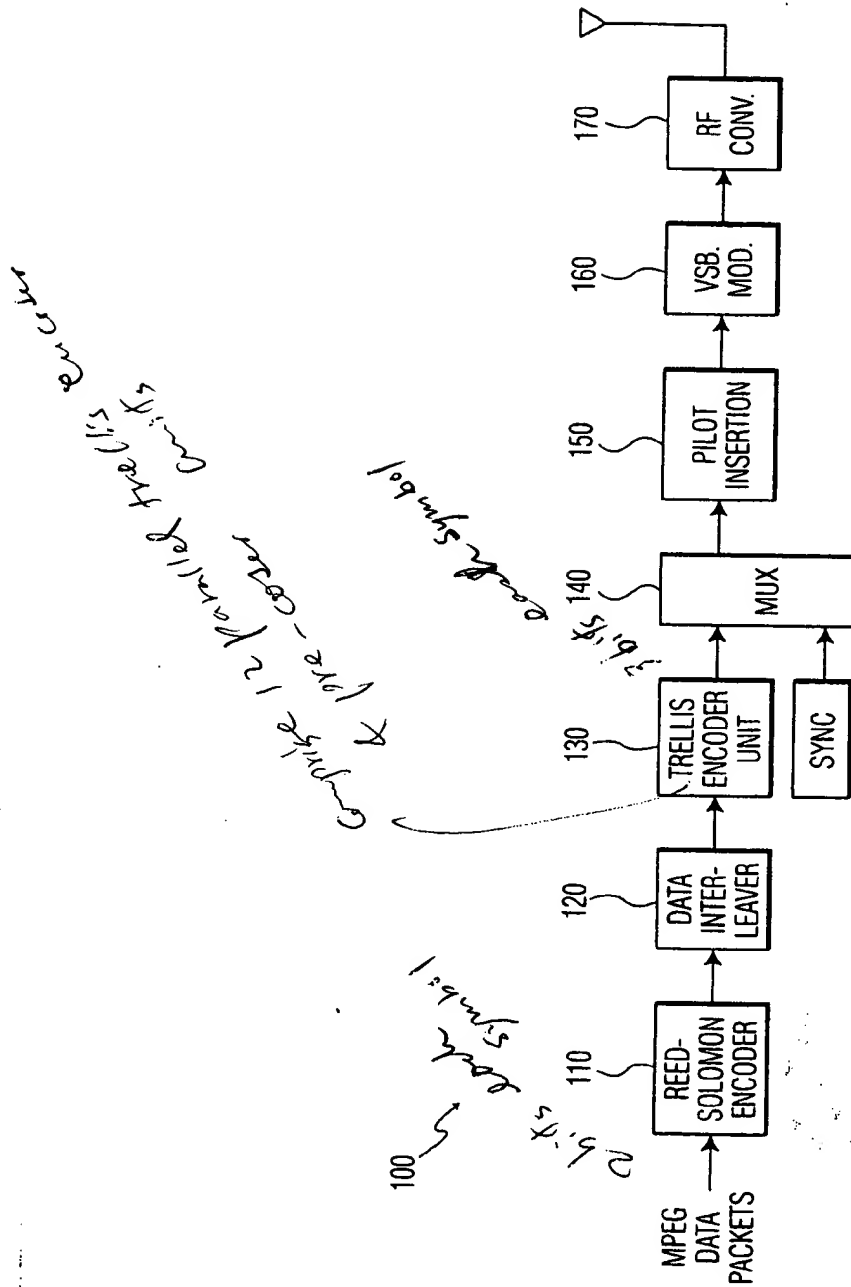


FIG. 1
PRIOR ART

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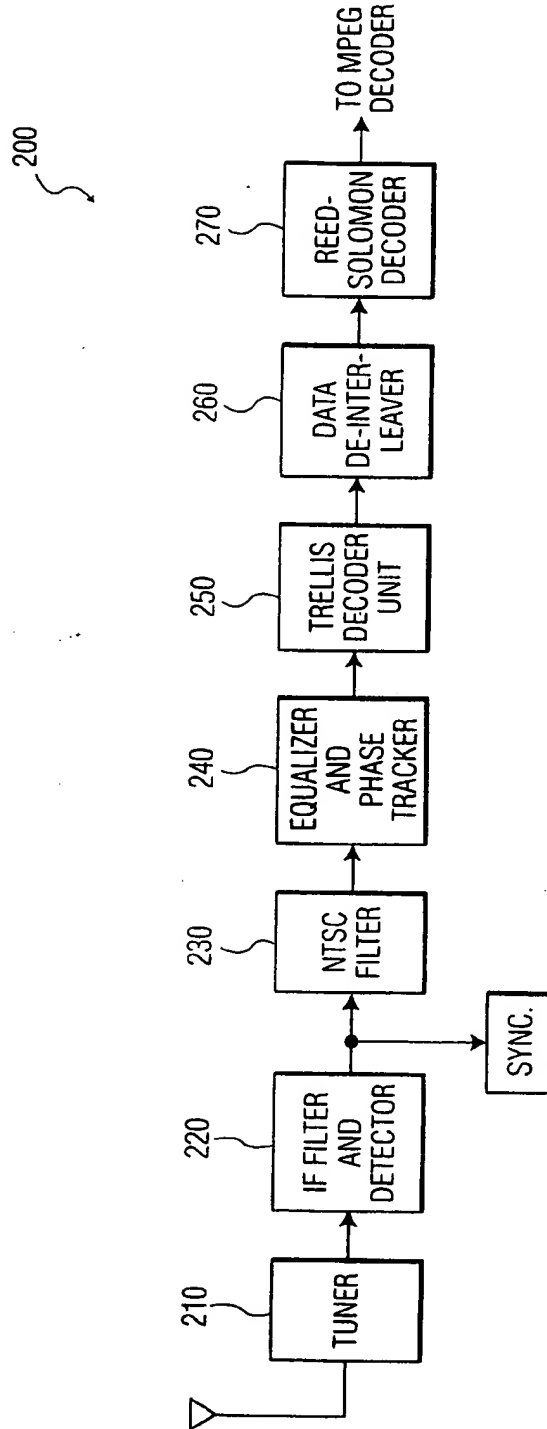
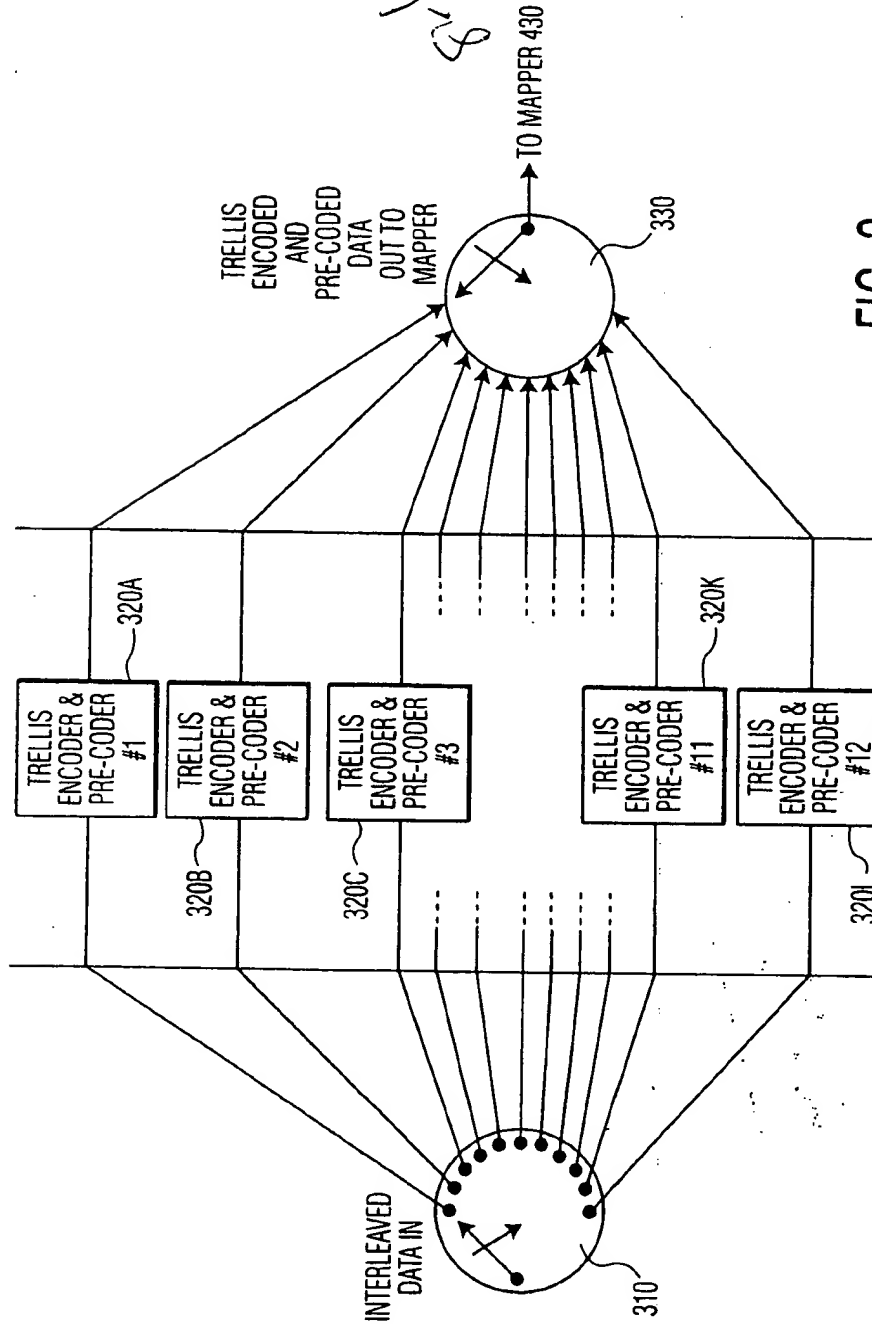


FIG. 2
PRIOR ART

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2nd stage mapping



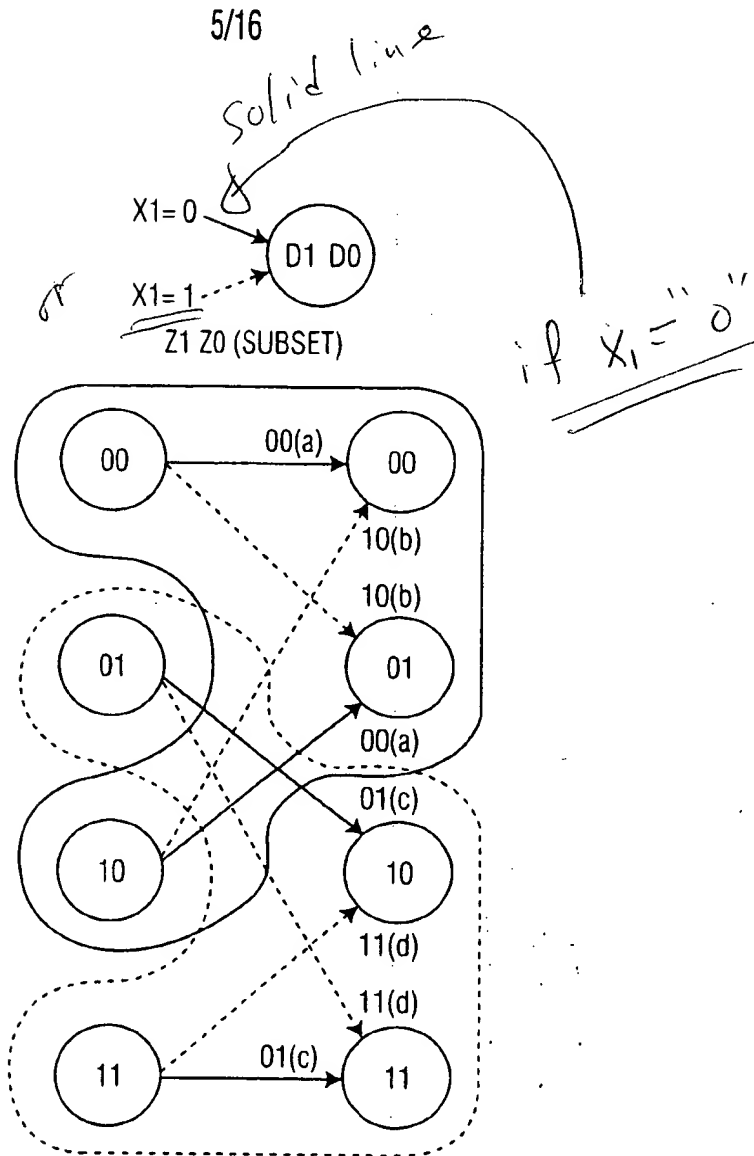


FIG. 5A
PRIOR ART

Systematic

obj
420
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multiplexer

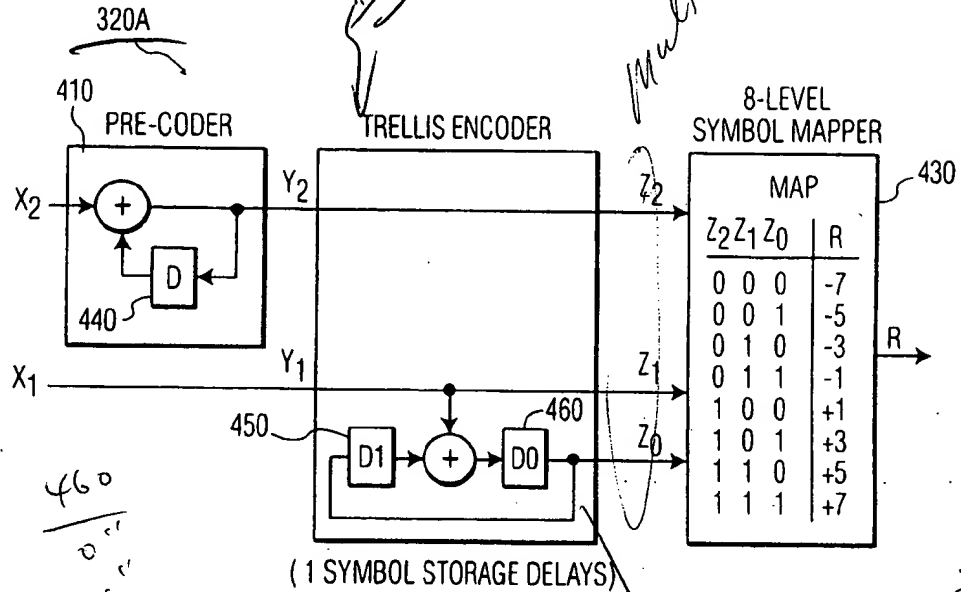


FIG. 4
PRIOR ART

at any symbol period set up for the four possible code states.

450
460
0 0 0
0 0 1
0 1 0
0 1 1
1 0 0
1 0 1
1 1 0
1 1 1

Rate 1/2
1 bit data registers

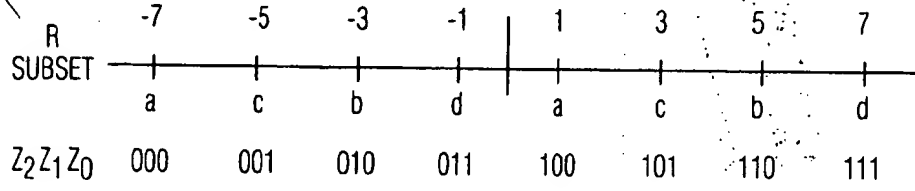
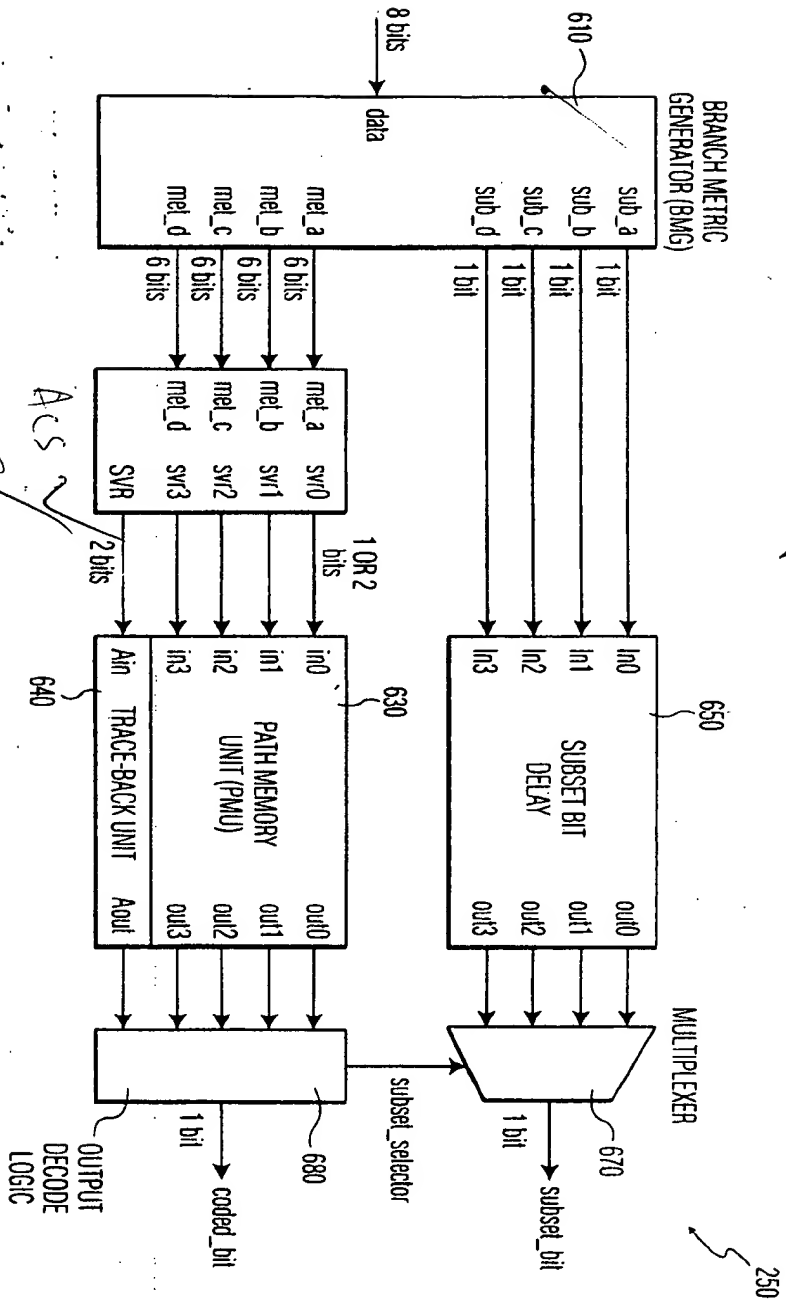


FIG. 4A
PRIOR ART

FIG. 6
PRIOR ART



6205-28
17-22
6205

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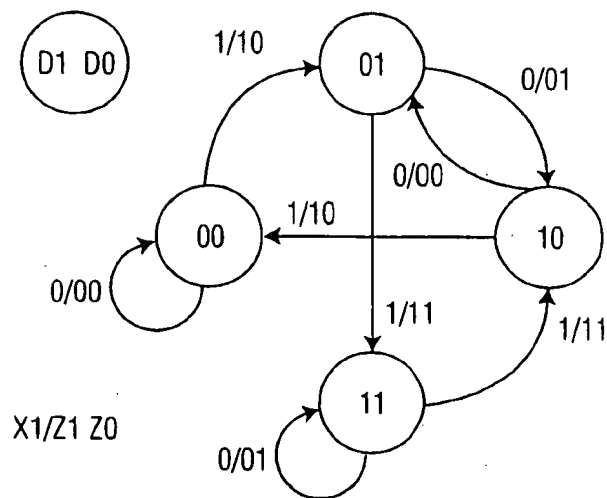


FIG. 5B
 PRIOR ART

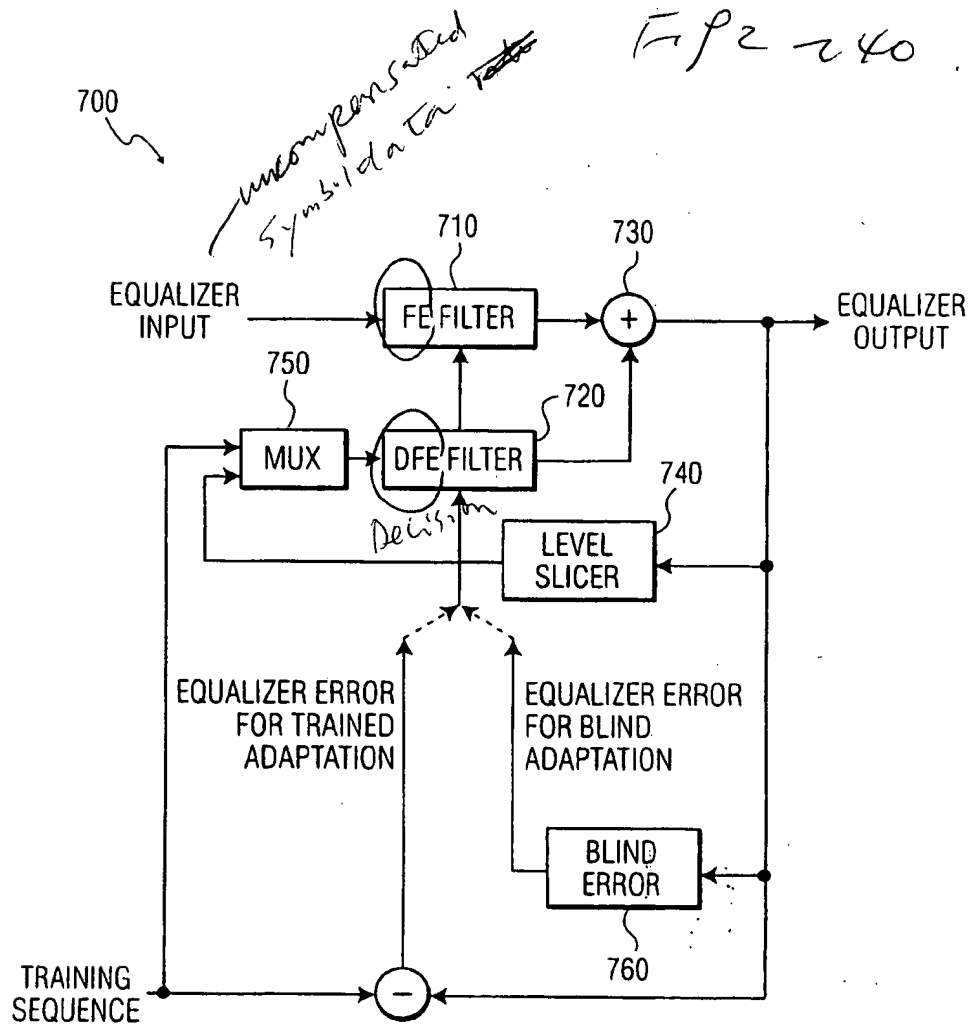
Present state
 PS *Next state*
 NS

X1	D1 D0	D1 D0	Z1 Z0
0	0 0	0 0	0 0
0	0 1	1 0	0 1
0	1 0	0 1	0 0
0	1 1	1 1	0 1
1	0 0	0 1	1 0
1	0 1	1 1	1 1
1	1 0	0 0	1 0
1	1 1	1 0	1 1

FIG. 5C
 PRIOR ART

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RX



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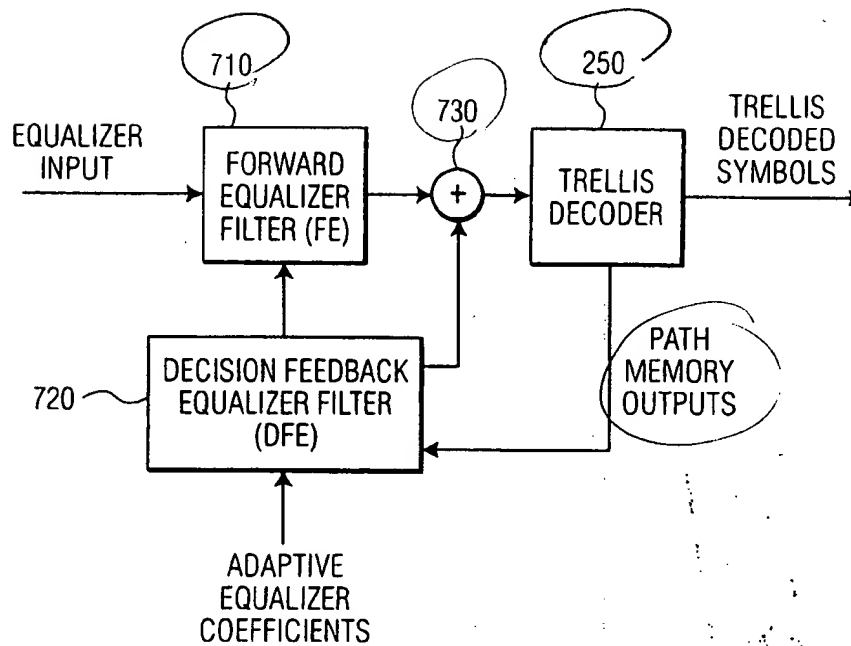


FIG. 9

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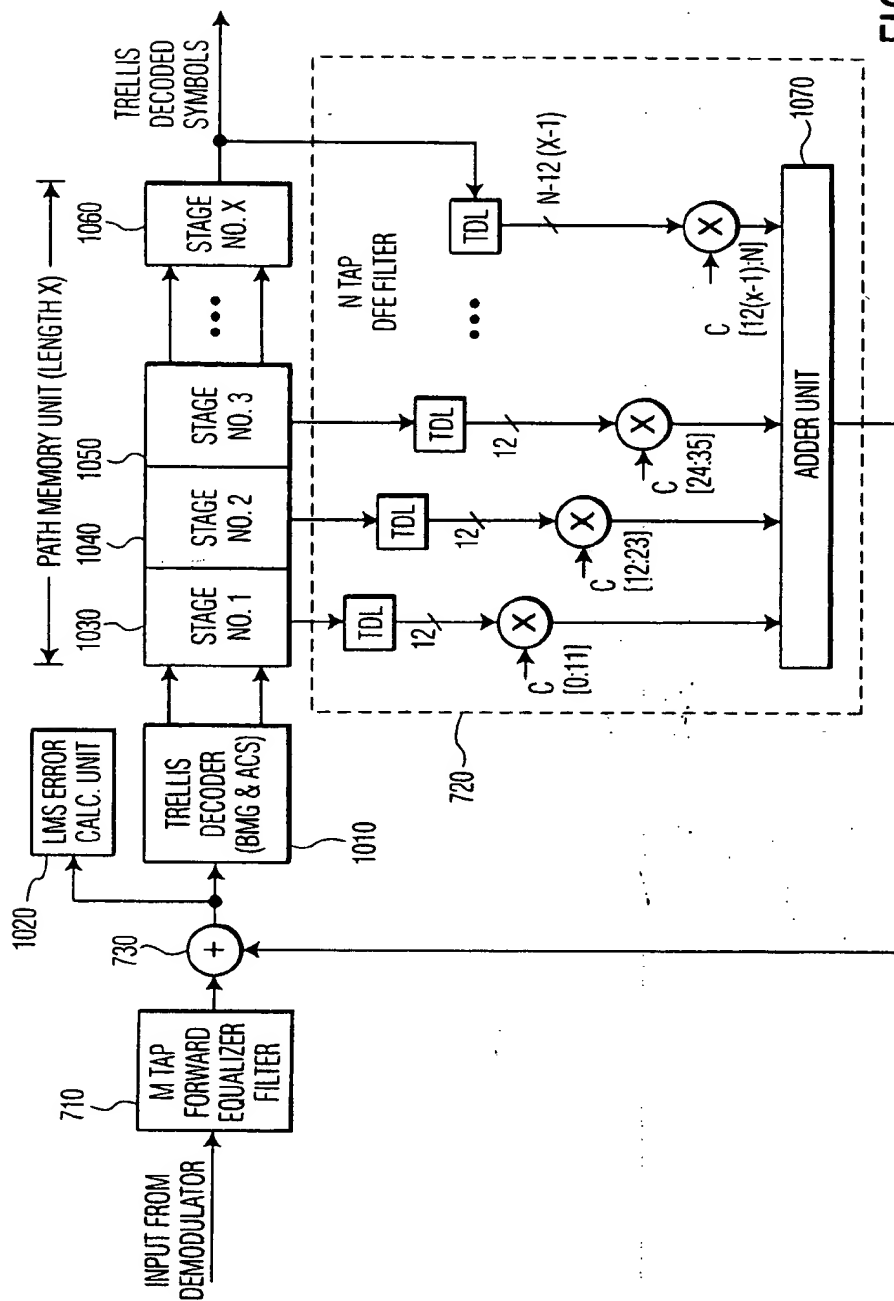


FIG. 10